PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU PCT Commissioner **NOTIFICATION OF ELECTION US Department of Commerce United States Patent and Trademark** (PCT Rule 61.2) Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) 20 March 2001 (20.03.01) in its capacity as elected Office International application No. Applicant's or agent's file reference PCT/US00/11766 161000/54039 International filing date (day/month/year) Priority date (day/month/year) 29 April 2000 (29.04.00) 30 April 1999 (30.04.99) **Applicant** VERHALEN, Ami et al 1. The designated Office is hereby notified of its election made: | X | in the demand filed with the International Preliminary Examining Authority on: 30 November 2000 (30.11.00) in a notice effecting later election filed with the International Bureau on: 2. The election was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

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Rule 32.2(b).

(PCT Article 36 and Rule 70)

INTERNATIONAL PRELIMINARY EXAMINATION REPORTED 2 9 OCT 2001

WIPO

Sheila Vehry The Peterson Pardegal Specialist

(705) 508-1148 Chnology Center 3700

PCT

Applicant's or agent's file reference 161000/54039	FOR FURTHER ACTION	CTION See Notification of Transmittal of Internationa Preliminary Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/n	ate (day/month/year) Priority date (day/month/year)	
PCT/US00/11766	29 APRIL 2000		30 APRIL 1999
International Patent Classification (IPC) IPC(7): B26D 7/00; B28D 19/00 and	or national classification and IF US Cl.: 83/42, 77, 174.1, 703, 93	C	,
Applicant BERKEL INCORPORATED			
2. This REPORT consists of a This report is also accompoen amended and are the (see Rule 70.16 and Section 1).	s transmitted to the applicant total of 9 sheets. panied by ANNEXES, i.e., sheet basis for this report and/or she ion 607 of the Administrative I	according to ts of the desc ets containin	ription, claims and/or drawings which have g rectifications made before this Authority.
These annexes consist of a tot			
3. This report contains indication	ns relating to the following it	ems:	
I X Basis of the repo	rt		
H Priority	*		
III Non-establishmer	nt of report with regard to no	velty, invent	tive step or industrial applicability
IV X Lack of unity of		• •	
V X Reasoned statemen citations and expla	t under Article 35(2) with rega unations supporting such staten	rd to novelty ent	, inventive step or industrial applicability;
VI Certain documents	cited		
VII X Certain defects in t	the international application		
	is on the international applicat	ion	
Date of submission of the demand	Date	of completion	of this report
30 NOVEMBER 2000 28 AUGUST 2001			

Authorized officer

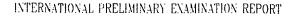
Telephone No.

KENNETH PETERSON

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

Name and mailing address of the IPEA/US

Facsimile No. (703) 305-3230



International	application	No.

PCT/US00/11766

1.	Basis of the re	eport			
1. W	ith regard to the ϵ	elements of the inter	national applicati	ion·*	
_		ional application	• •		
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5	the claims:				
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W	th regard to the I	language, all the ele	ments marked	above were available or furnished	to this Authority in the language in which which is:
11 fT	ie international aj iese elements wei	pplication was filed, re available or furni	unless otherwis	e indicated under this item.	nday la inc
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느] the language	of a translation	furnished for	the purposes of international	search (under Rule 23.1(b)).
	the language	of publication of	the internati	onal application (under Rule -	48.3(b)).
	The language o	of the translation fo	miched for the	purposes of international preliming	arv examination (under Rule: 55.2 and/
_	or 55.3).		THISTIC TOT VIIC	Indiana, or metherway lacinum	tory examination functor fution 18.2 (file)
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; r;	th regard to any	v nucleotide and/o	or amino acid :	sequence disclosed in the inter	national application, the international
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* Re	placement sheets	which have been fo	e moreared in the rnished to the re	ne Supplemental Box (Rule 70.3(e	invitation under Article 14 are referred to
in	inis report as	originally filed" an	d are not anne	exed to this report since they do	not contain amendments (Rules 70.16
an	<i>a 70.17).</i>				
/1/	iv replacement s	neer containing su	cn amendments	must be referred to under item	I and annexed to this report.



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/11766

IV. Lack of unity of invention	
1. In response to the invitation to restrict or pay additional fees the applicant has:	
restricted the claims.	ļ
X paid additional fees.	
paid additional fees under protest.	
neither restricted nor paid additional fees.	
2. This Authority found that the requirement of unity of invention is not complied with and chose, ac not to invite the applicant to restrict or pay additional fees.	coording to Rule 68.1,
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and is	1 13.3
complied with.	
not complied with for the following reasons:	
Please See Supplemental Sheet.	
·	
4. Consequently, the following parts of the international application were the subject of international prelimina in establishing this report:	ary examination
X all parts.	
the parts relating to claims Nos	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/11766

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial	applicability:
	citations and explanations supporting such statement	

1	statement			
•••	orace in car.			
	Novelty (N)	Claims	5, 7-13, 18	YES
	•	Claims	1-4, 6, 14-17	NO
	Inventive Step (IS)	Claims	NONE	YES
		Claims	1-18	NO NO
	Industrial Applicability (IA)	Claims	1-18	YES
		Claims	NONE	NO
		Claims Claims Claims	1-4, 6, 14-17 NONE 1-18	

2. citations and explanations (Rule 70.7)

Claims 1-2, as best understood, lack novelty and an inventive step under PCT Article 33(2)-(3) as being anticipated by Sly et al. (US 3,958,602).

Sly discloses all the positively recited elements of the invention including a rotatable blade and a motor (col. 2), a base defining a portion of a periphery of a food slice receiving area with a sliced food receptacle (18) and a scale (15).

Claims 3-4, as best understood, lack novelty and an inventive step under PCT Article 33(2)-(3) as being anticipated by Freudenberg (US 1,945,269).

Freudenberg discloses all the positively recited elements of the invention including a rotatable blade (15), a motor (20), a gauge plate adjustment (43), a support surface having visible indicia (81) and an adjustable gauge plate (25).

Claim 6, as best understood, lacks novelty and an inventive step under PCT Article 33(2)-(3) as being anticipated by Shie, III (US 3,986,304).

Shie discloses all the positively recited elements of the invention including a rotatable blade having a blade edge (15), a motor (drive means), a blade sharpening assembly (25) having a sharpening stone (30), a spring (37), a guide (53) and an actuator (70).

Claims 14-15, as best understood, lack novelty and an inventive step under PCT Article 33(2)-(3) as being anticipated by Huang et al. (US 5,666,866).

Huang discloses all the positively recited elements of the invention including a rotatable blade (20), a motor, a slidably mounted table (26), a handle having a first grasping portion, and a second grasping portion and a third grasping portion (Fig. 1).

Claims 16-17, as best understood, lack novelty and an inventive step under PCT Article 33(2)-(3) as being anticipated by Johnson et al. (US 4,813,316). (Continued on Supplemental Sheet.)

Form PCT/IPEA/409 (Box V) (July 1998)★



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/11766

	PC17US00711766				
VII. Certain defects in the international application					
The following defects in the form or contents of the international application	have been noted:				
The drawings are objected to under PCT Rule 66.2(a)(iii) as containing the following reference character "3502" has been used to designate both visible indicia and supp	ng defect(s) in the form or content thereof: ort surface.				
The description is objected to as containing the following defect(s) under PCT Rule page 16, line 24, "43" should be -34	66.2(a)(iii) in the form or contents thereof:				
	•				



PCT/US00/11766

VIII. Certain observati ns on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-4, 6-8, 11-12, 14-15 and 17 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claims 1, 3-4, 6, 11, 14-15 and 17 are indefinite for the following reason(s): In claim 1, it is not clear what structure infers "no portion of the base extending into said food slice receiving area so that said bulk food product output can form a stack of substantial height on said food slice receiving area". If the base defines a portion of a periphery of the food slice receiving area, how is it possible to have no portion of the base extending into the food slice receiving area?

In claims 3-4, it is not clear what structure "adapted to connect" infers.

In claim 4, "the gauge plate" lacks positive antecedent basis.

In claim 6, it is not clear what structure "adapted to engage" infers. It is not clear what is meant by "self adjusting". Does that mean the blade sharpening assembly adjust by itself? It appears that the adjustment requires adjusting of depression of the actuator along the guide.

In claim 11, it is not clear what structure infers "at least one lock (217) for securing ...". A ridge (217) prevents movement of body (208) with respect to base (204), it does not appear to prevent movement of the sled.

In claim 14, it is clear what is meant by "extending substantially horizontally".

In claim 15, it is not clear what structure " a first and second length" infers.

In claim 17, it is not clear what step the recitation "automatically driving the table (300) from the table end position back to the table start position..." encompass. Is "the table end position" recorded in the memory device also? It appears that it requires a signal from an end position switch.



PCT/US00/11766

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

IV. LACK OF UNITY OF INVENTION:

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2, and 13.3 is not complied with for the following reasons:

As applicant was previously notified this International Preliminary Examining Authority has found plural inventions claimed in the International Application covered by the claims indicated below:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1.

Group I, claim(s)1-4 are, drawn to a bulk food product slicing machine containing a specific slice thickness indicia.

Group II, claim(s) 5-8 are, drawn to a bulk food product slicing machine containing a specific blade sharpening assembly.

Group III, claim(s) 9-12 are, drawn to a slicing machine containing a specific table and sled.

Group IV, claim(s) 13 is, drawn to a bulk food product slicing machine containing a specific carriage and support arm.

Group V, claim(s) 14-15 are, drawn to a bulk food product slicing machine containing a specific handle.

Group VI, claim(s) 16 is, drawn to an operator adjusted optimum stroke system containing a specific selector, zero position switch, encoder and microprocessor.

Group VII, claim(s) 17 is; drawn to a method of automatic operation of a bulk food product slicing machine.

Group VIII, claim(s) 18 is, drawn to a bulk food product slicing machine containing a specific adjustable gauge plate and interlock system.

and it considers that the International Application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated below:

The inventions listed as Groups I-VIII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The apparatus of Group I does not require the special technical features of the apparatus of Group II such as the specific blade sharpening assembly, conversely, the apparatus of Group II does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group III such as the specific table and sled, conversely, the apparatus of Group III does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group I such as the specific slice thickness indicia. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific slice thickness indicia set forth in Group I. The apparatus of Group I does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group II does not require the special technical features of the apparatus of Group III such as the specific table and sled, conversely, the apparatus of Group III does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group II such as the specific blade sharpening assembly. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific blade sharpening assembly set forth in Group II. The apparatus of Group II does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group III does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group III such as the specific table and sled. The apparatus of





PCT/US00/11766

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 11

Group III does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group III such as the specific table and sled. The apparatus of Group III does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group III such as the specific table and sled. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific table and sled set forth in Group III. The apparatus of Group III does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group III such as the specific table and sled. The apparatus of Group IV does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group IV such as the specific carriage and support arm. The apparatus of Group IV does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group IV such as the specific carriage and support arm. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific carriage and support arm set forth in Group IV. The apparatus of Group IV does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group IV such as the specific carriage and support arm. The apparatus of Group V does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group V such as the specific handle. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific handle set forth in Group V. The apparatus of Group V does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group V such as the specific handle. The apparatus of Group VI does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group VI such as the specific selector, zero position switch, encoder, microprocessor. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific selector, zero position switch, encoder, microprocessor set forth in Group VI and adjustable gauge plate and interlock system set forth in Group VIII.

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Johnson discloses all the positively recited elements of the invention including a selector (104), a zero position switch (col. 12, lines 15-26), an encoder (col. 12 line 67-col. 13, line 16), and a microprocessor having memory (142).

Claims 5, 7-13 and 18 meet the criteria set out in PCT Article 33(2), because no single reference discloses the claimed invention.

Claims 5 and 8, as best understood, lack an inventive step under PCT Article 33(3) as being obvious over Shie, III (US 3,986,304).

Shie discloses the invention substantially as claimed including a rotatable blade having a sharp edge (15), a motor (drive means), a blade sharpening assembly (25) having at least one sharpening stone (30) and a shield (75). Shie fails to teach that the shield is retractable. However, it would have been an obvious matter of design choice to modify the shield of Shie separate and retractable from a guard cover (70) of Shie, since constructing a formerly integral structure in various elements involves only routine skill in the art and the retractable shield is old and well known in the art.

Claim 7, as best understood, lacks an inventive step under PCT Article 33(3) as being obvious over Shie, III (US 3,986,304)in view of Young (US 6,164,161).

Shie discloses the invention substantially as claimed except for a position sensor. Young teaches a sharpener provided with a safety switch (col. 10). Given the teachings of Young, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ a safety switch on the device of Shie. Doing so would provide a safety mechanism for operating the sharpening assembly with the rotating blade.

Claims 9-12, as best understood, lack an inventive step under PCT Article 33(3) as being obvious over Koch et al. (US



PCT/US00/11766

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 12

5,224,407) in view of Strachan et al. (US 1,972,250).

Koch discloses the invention substantially as claimed including a rotatable blade (8), a motor, a table (5) and at least one lock (page 1, lines 85-89). Koch fails to teach a sled having a base portion and a securing surface, and a second securing surface. Strachan teaches clamp elements (13, 14). Given the teachings of Strachan, it would have been obvious to one having ordinary skill in the art to employ a sled having securing surfaces on the device of Koch. Doing so would improve securing of the work during slicing. With respect to claim 12, see holding plate (15) of Koch.

Claim 13 lacks an inventive step under PCT Article 33(3) as being obvious over Koch et al. (US 5,224,407).

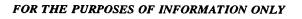
Koch discloses the invention substantially as claimed including a base (2), a rotatable blade (8), a motor, a carriage (5), a support arm including a pivot actuator (Fig. 1). Koch fails to disclose a releasable table having a top surface and a release. However, it would have been an obvious matter of design choice to employ a releasable table with a release since such arrangement is old and well known in the art for the purpose of providing ease cleaning of the table.

Claim 18 lacks an inventive step under PCT Article 33(3) as being obvious over Koch et al. (US 5,224,407)in view of Pratley (US 3,704,736).

Koch discloses the invention substantially as claimed including a base (2), a rotatable blade (8), a motor, a carriage (5), and a support arm including a pivot actuator (Fig. 1). Koch fails to teach an interlock system having a slidable plate and a hinged flapper stop operably connecting an adjustable gauge plate and a releasable table having a top surface and a release. However, it would have been an obvious matter of design choice to employ a releasable table with a release since such arrangement is old and well known in the art for the purpose of providing ease cleaning of the table. Furthermore, Pratley teaches interlock system to prevent removal of a carriage tray (100) except when the gauge plate (65) is at its zero setting flush with a knife (35). Given the teachings of Pratley, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an interlock operably connecting an adjustable gauge plate and a releasable table on the device of Koch. Doing so would assure guarding of the cutting edge from exposing when the table is released from the machine for cleaning.

Claims 1-18 meet the criteria set out in PCT Article 33(4), because it can be made and used in the industry.

US 6,164,161 A (YOUNG) 26 DECEMBER 2000, see column 10.



Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
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International application No. PCT/US00/11766

	COVERAGE PROPERTY OF STREET				
	SSIFICATION OF SUBJECT MATTER				
	:B26D 7/00; B23D 19/00				
	US CL :83/42, 77, 174.1, 703, 932 According to International Patent Classification (IPC) or to both national classification and IPC				
		national classification and IPC			
	LDS SEARCHED				
Minimum d	ocumentation searched (classification system followe	d by classification symbols)			
U.S. :	Please See Extra Sheet.				
Documentat	tion searched other than minimum documentation to th	e extent that such documents are included	in the Salda coordead		
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.		
X	US 3,938,602 A (SLY et al) 17 Febru	uary 1976, Figures 1-3.	1-2		
X	US 1,945,269 A (FREUDENBERG)	30 January 1934, Figure 1.	3-4		
X	US 3,986,304 A (SHIE, III) 19 Octob	er 1976, Figures 1-5.	5		
Y			6-8		
Y	US 4,246,821 A (FUSE) 27 January 1	1981, columns 3-4.	6-8		
Y	US 5,224,407 A (KOCH et al) 06 Jul	y 1993, Figure 1.	9-15, 18		
Y	US 1,972,250 A (STRACHAN et al) (14 September 1934, Figure 1.	9-13		
		1			
X Furth	er documents are listed in the continuation of Box C	See patent family annex.			
* Spe	ecial categories of cited documents:	"T" later document published after the inte	rnational filing date or priority		
"A" doc	cument defining the general state of the art which is not considered	date and not in conflict with the applica principle or theory underlying the inv	ition but cited to understand the		
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		considered novel or cannot be considered when the document is taken alone	red to involve an inventive step		
Cité	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other	··-			
•	ecial reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive	claimed invention cannot be step when the document is		
"O" doc	O" document referring to an oral disclosure, use, exhibition or other means documents, such combination being obvious to a person skilled in the art				
"P" doc	cument published prior to the international filing date but later than priority date claimed	& document member of the same patent			
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report		
07 AUGU	ST 2000	24 AUG 2000			
Name and n	ame and mailing address of the ISA/US Authorized officer				
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International application No. PCT/US00/11766

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,666,866 A (HUANG et al) 16 September 1997, Figure 1.	14-15
Y	US 4,813,316 A (JOHNSON et al) 21 March 1989, columns 6-8.	16-17
Y	US 3,704,736 A (PRATLEY) 05 December 1972, columns 3-5.	18
A, P	US 5,970,840 A (YAN et al) 26 October 1999, Figure 1.	1-18
A	US 5,862,730 A (CARTWRIGHT et al) 26 January 1999, Figure 1.	1-18
Α	US 5,630,348 A (KUCHLER) 20 May 1997, Figure 1.	1-18
A	US 5,615,591 A (SCHERCH et al) 01 April 1997, Figures 1-2.	1-18
A	US 5,591,072 A (TWEED et al) 07 January 1997, Figures 1-2.	1-18
A	US 5,245,898 A (SOMAL et al) 21 September 1993, Figure 1.	1-18
Α	US 5,209,150 A (ARCONADA ARCONADA) 11 May 1993, Figure 2.	1-18
A	US 5,101,704 A (JONES et al) 07 April 1992, Figure 4.	1-18
A	US 4,817,480 A (YOUNG) 04 April 1989, Figure 1.	1-18
A	US 4,685,364 A (SCHEFLOW et al) 11 August 1987, Figure 3.	1-18
A	US 4,397,206 A (CZALA) 09 August 1983, Figure 1.	1-18
Α	US 4,345,498 A (BEST) 24 August 1982, Figure 2.	1-18
A	US 4,306,385 A (BURTON) 22 December 1981, Figure 12.	1-18
A	US 4,273,013 A (ARTIN et al) 16 June 1981, Figure 1.	1-18
A	US 3,958,478 A (CAMPER) 25 May 1976, Figures 1-5.	1-18
A	US 3,702,150 A (MULLER et al) 07 November 1972, Figure 1.	1-18
A	US 3,320,990 A (ANECKI) 23 May 1967, Figure 1.	1-18
Α	US 2,851,074 A (TALGE et al) 09 September 1958, Figure 1.	1-18
Α	US 2,412,962 A (BROOKHART et al) 24 December 1946, Figure	1-18

Form PCT/ISA/210 (continuation of second sheet) (July 1998)★



International application No. PCT/US00/11766

	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 1,954,043 A (FRYER) 10 April 1934, Figure 1.	1-18
		·



International application No. PCT/US00/11766

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
Please See Extra Sheet.
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
TO THE TOTAL OF THE MICHIGARY IN THE CIAINS, It IS COVERED BY CIAINS 1405
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.



International application No. PCT/US00/11766

B. FIELDS SEARCHED

Minimum documentation searched Classification System: U.S.

83/42, 77, 174.1, 932, 703, 58, 62, 72, 74, 76.6, 76.7, 76.8, 76.9, 522.19, 707, 713, 714, 717, 718, 719, 729, 730; 451/423, 421, 419, 45, 9

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s)1-4 are, drawn to a bulk food product slicing machine containing a specific slice thickness indicia. Group II, claim(s) 5-8 are, drawn to a bulk food product slicing machine containing a specific blade sharpening assembly.

Group III, claim(s) 9-12 are, drawn to a slicing machine containing a specific table and sled.

Group IV, claim(s) 13 is, drawn to a bulk food product slicing machine containing a specific carriage and support arm.

Group V, claim(s) 14-15 are, drawn to a bulk food product slicing machine containing a specific handle.

Group VI, claim(s) 16 is, drawn to an operator adjusted optimum stroke system containing a specific selector, zero position switch, encoder and microprocessor.

Group VII, claim(s) 17 is, drawn to a method of automatic operation of a bulk food product slicing machine. Group VIII, claim(s) 18 is, drawn to a bulk food product slicing machine containing a specific adjustable gauge plate and interlock system.

The inventions listed as Groups I-VIII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The apparatus of Group I does not require the special technical features of the apparatus of Group II such as the specific blade sharpening assembly, conversely, the apparatus of Group II does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group III such as the specific table and sled, conversely, the apparatus of Group III does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group I does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group I such as the specific slice thickness indicia. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific slice thickness indicia set forth in Group I. The apparatus of Group I does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group I such as the specific slice thickness indicia. The apparatus of Group II does not require the special technical features of the apparatus of Group III such as the specific table and sled, conversely, the apparatus of Group III does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group II does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group II such as the specific blade sharpening assembly. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific blade sharpening assembly set forth in Group II. The apparatus of Group II does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge



International application No. PCT/US00/11766

plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group II such as the specific blade sharpening assembly. The apparatus of Group III does not require the special technical features of the apparatus of Group IV such as the specific carriage and support arm, conversely, the apparatus of Group IV does not require the special technical features of Group III such as the specific table and sled. The apparatus of Group III does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group III such as the specific table and sled. The apparatus of Group III does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group III such as the specific table and sled. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific table and sled set forth in Group III. The apparatus of Group III does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group III such as the specific table and sled. The apparatus of Group IV does not require the special technical features of the apparatus of Group V such as the specific handle, conversely, the apparatus of Group V does not require the special technical features of Group IV such as the specific carriage and support arm. The apparatus of Group IV does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group IV such as the specific carriage and support arm. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific carriage and support arm set forth in Group IV. The apparatus of Group IV does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group IV such as the specific carriage and support arm. The apparatus of Group V does not require the special technical features of the apparatus of Group VI such as the specific selector, zero position switch, encoder, microprocessor, conversely, the apparatus of Group VI does not require the special technical features of Group V such as the specific handle. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific handle set forth in Group V. The apparatus of Group V does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group V such as the specific handle. The apparatus of Group VI does not require the special technical features of the apparatus of Group VIII such as the specific adjustable gauge plate and interlock system, conversely, the apparatus of Group VIII does not require the special technical features of Group VI such as the specific selector, zero position switch, encoder, microprocessor. The method of Group VII can be practiced by another different apparatus such as the apparatus not having the specific selector, zero position switch, encoder, microprocessor set forth in Group VI and adjustable gauge plate and interlock system set forth in Group VIII.